

**Project Id: UY6758GH**

**Task: Develop a Personal Finance Management Application**

**Objective:**

Create a command-line application that helps users manage their personal finances by tracking income, expenses, and generating financial reports.

**Requirements:**

Following are the Requirements that user must keep in mind for running the project properly.

1. This Project has been developed in Windows 64 Bit Operating System . Make sure that user has latest 32Bit or 64Bit Operating System.
2. The Project has been developed in Python 3.11 Version Make sure to either use the same python version or any above version above it .Here I will attach Both Video Tutorial and Article Link with detailed step by step image representation on how to download Python :

Article: <https://phoenixnap.com/kb/how-to-install-python-3-windows>

Video: [https://youtu.be/ExJHGE6gt0?si=VOunce7\\_MdrbMMFu](https://youtu.be/ExJHGE6gt0?si=VOunce7_MdrbMMFu)

3. The Project has been developed using XAMPP [MYSQL DATABASE] version v.3.3.0. Make sure that your system is compatible with the latest xampp version . You can download xampp latest version from here .

Xampp: <https://www.apachefriends.org/download.html>

**You can also refer to this Video Tutorial for installation[MUST WATCH]**

Video Tutorial: [https://youtu.be/G2VEf-8nepc?si=kADrlhJwMd1z7D\\_g](https://youtu.be/G2VEf-8nepc?si=kADrlhJwMd1z7D_g)

4. Projects is developed in Pycharm so you can download pycharm from here .

PYCHARM: <https://www.jetbrains.com/pycharm/download/?section=windows>

**You can also use Other Alternatives Like Visual Studio Code and JetBrains etc too.**

**5. IMPORTANT POINT:**

1. USER SHOULD MAKE SURE THAT PYTHON PATH IS BEING PROPERLY SET IN ENVIRONMENTAL VARIABLES SO THAT PYCHARM CAN RECOGNIZE IT AS INTERPRETER .

**PATH VIDEO LINK: [https://youtu.be/AMAE0S\\_NzxE?si=33MsAPP8lluzWFrY](https://youtu.be/AMAE0S_NzxE?si=33MsAPP8lluzWFrY)  
[MUST WATCH]**

2. USER SHOULD MAKE SURE TO PROPERLY CONFIGURE THE PYCHARM ENVIRONMENT BEFORE USING THE PROJECT.

**CONFIGURE VIDEO LINK:** <https://youtu.be/mixR77qp-Cs?si=CaqP20P1Ix-LZsaM>  
**[MUST WATCH]**

6. Pycharm Package Installation: Following Python Packages have been used throughout the project development to make sure Project is working . You can install them from pycharm terminal directly or you can install them command link prompt.

**HOW TO INSTALL PYTHON PACKAGES IN PYCHARM TERMINAL:**

<https://youtu.be/8MCc3M0Xmhs?si=yGij2GKjh3y0ma9N>

**HOW TO INSTALL PYTHON PACKAGES USING COMMAND LINE:**

[https://youtu.be/fJKdlf11Gcl?si=tnyomG7tO\\_YxHssR](https://youtu.be/fJKdlf11Gcl?si=tnyomG7tO_YxHssR)

**YOU CAN DIRECTLY PASTE THESE COMMANDS IN PYCHARM TERMINAL AS WELL TO INSTALL THESE MODULES :**

- I. **MySQL Connector (for MySQL database interaction):**  
**pip install mysql-connector-python**
- II. **os (for interacting with the operating system):** No need to install this as os is part of Python's standard library, you can just import this in file by writing:  
**import os**
- III. **subprocess (for running system commands):** No need to install this as subprocess is part of Python's standard library.
- IV. **datetime (for handling date and time):** No need to install this as datetime is part of Python's standard library.
- V. **bcrypt (for password hashing):**  
**pip install bcrypt**

**VIDEO LINK FOR IMPORTING PYTHON PACKAGES:**

<https://youtu.be/GxCXiSkm6no?si=u3EcD8-R7hy8IUQe>

7. Make sure that the MYSQLDUMP command path has been added to Environmental Variables Path in order to Avoid Any Problem while creating the database back up and for later restoring the database.  
**\*\*\*NOTE WATCH THE VIDEO TILL 3:50 SECONDS ON HOW TO CONFIGURE THE PATH.**  
**Here is the video link :** [https://youtu.be/zN7rTj8BCm0?si=IcYyMXIHQox\\_EGFK\[Watch](https://youtu.be/zN7rTj8BCm0?si=IcYyMXIHQox_EGFK[Watch)
8. The Project Generally starts from main.py file that it is also mentioned in the usermanual pdf and all the steps are given in that pdf too.
9. The Project Main Database file **'finance\_db\_backup'.sql** is present in the PROJECTMAINDATABASE FOLDER MAKE SURE TO PROPERLY IMPORT THAT DATABASE.  
FURTHER DETAILS ARE ALSO GIVEN BELOW

## STEPS FOR INSTALLING THE PROJECT:

1. Extract the Project Zip and copy the project folder name `finance_manager` and paste it directly in the C DRIVE or you can copy all the folder or files present in `finance_manager` folder and paste it in your own project directory.
2. Make sure that you have installed all the Modules Described Above using pip.
3. Make sure that in Xampp both APCHE and MYSQL are running otherwise it may lead to an error in the future.
4. All the imports are being made like date and time module,byrcrypt and os module etc pycharm will also notify you about the modules that needs to be installed.
5. YOU WILL HAVE TO IMPORT THE ENTIRE SQL DATABASE FROM THE 'finance\_db\_backup'.sql file . Make sure that database has been successfully imported In PHPMYADMIN and you can also used this link to learn how to import the sql file.  
LINK: <https://youtu.be/jW5lrS6EUPM?si=NWkR0zs2rxabMbAO>
6. The Data Entry Format is also given with the code using print statement make sure to enter the data in same format to avoid any problem like make sure to enter the transactions category to income/expense only to avoid any database error . If any error is raised make sure to enter the data in same format only or you can check user manual as well.
7. Errors Handling is also done using try-exception in order to avoid any large errors.
8. Other than if you face any error you can also contact me .